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| FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE<br><b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>   |   | ATTORNEY'S DOCKET NUMBER<br><b>GRUNP47</b>                 |
| <b>EXPRESS MAIL LABEL NO. ED 178004590 US</b>  |   | U.S. APPLICATION NO.<br><b>107523308</b><br>To Be Assigned |
| INTERNATIONAL APPLICATION NO.<br><b>PCT/EP03/08373</b>   | INTERNATIONAL FILING DATE<br><b>29 July 2003 (07.29.2003)</b> | PRIORITY DATE CLAIMED<br><b>31 July 2002 (07.31.2002)</b>  |
| TITLE OF INVENTION<br><b>PLATE ELEMENTS FOR FUEL CELL STACKS</b>   |   |  |
| APPLICANT(S) FOR DO/EO/US<br><b>Markus HUBER, Christian RUF</b>  |   |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |   |  |
| <p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9), and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p>a. <input checked="" type="checkbox"/> is attached hereto.</p> <p>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p>d. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> |   |  |
| Items 11 through 20 below concern document(s) or information included:   |   |  |
| <p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A preliminary amendment.</p> <p>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 USC 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 USC 154(d)(4).</p> <p>20. <input type="checkbox"/> Other items or information:</p>  |   |  |

|   |              |   |                 |                                     |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
|---|--------------|---|-----------------|-------------------------------------|---------|--|----------|---------------|-----------------|---|----------|-----------|--|--|----------|-----------|--|--|--|-----------|--|--|--|-------------|--|--|
| U.S. APPLICATION NO.<br>To Be Assigned<br><b>107523308</b>  |              | INTERNATIONAL APPLICATION NO.<br>PCT/EP03/08373                               |                 | ATTORNEY'S DOCKET NUMBER<br>GRUNP47 |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| <p>21. The following fees are submitted:</p> <table> <tr> <td><input checked="" type="checkbox"/> a) Basic national fee.....</td> <td>\$300.00</td> <td>Applicant Use</td> <td>Office use only</td> </tr> <tr> <td><input checked="" type="checkbox"/> b) Examination fee.....</td> <td>\$200.00</td> <td>\$ 300.00</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> c) Search fee.....</td> <td>\$500.00</td> <td>\$ 200.00</td> <td></td> </tr> <tr> <td colspan="2"><b>TOTAL OF ABOVE CALCULATIONS = \$1000.00</b></td> <td>\$ 500.00</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>\$ 1,000.00</td> <td></td> <td></td> </tr> </table> <p><input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.</p> |              |   |                 |                                     |         | <input checked="" type="checkbox"/> a) Basic national fee..... | \$300.00 | Applicant Use | Office use only | <input checked="" type="checkbox"/> b) Examination fee..... | \$200.00 | \$ 300.00 |  | <input checked="" type="checkbox"/> c) Search fee..... | \$500.00 | \$ 200.00 |  | <b>TOTAL OF ABOVE CALCULATIONS = \$1000.00</b> |  | \$ 500.00 |  |  |  | \$ 1,000.00 |  |  |
| <input checked="" type="checkbox"/> a) Basic national fee.....  | \$300.00     | Applicant Use   | Office use only |                                     |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| <input checked="" type="checkbox"/> b) Examination fee.....   | \$200.00     | \$ 300.00   |                 |                                     |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| <input checked="" type="checkbox"/> c) Search fee.....  | \$500.00     | \$ 200.00   |                 |                                     |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| <b>TOTAL OF ABOVE CALCULATIONS = \$1000.00</b>  |              | \$ 500.00   |                 |                                     |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
|   |              | \$ 1,000.00   |                 |                                     |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| Total Sheets  | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE            |                                     |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| 22 - 100 =  | 0/50 =       | 0   | x \$250.00      | \$ 0.00                             |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e))   |              |   |                 | \$ 130.00                           |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| CLAIMS  | NUMBER FILED | NUMBER EXTRA  | RATE            |                                     |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| Total claims  | 20 - 20 =    | 0   | x \$50.00       | \$ 0.00                             |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| Independent claims  | 1 - 3 =      | 0   | x \$200.00      | \$ 0.00                             |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| MULTIPLE DEPENDENT CLAIM(S) (IF APPLICABLE)   |              |   |                 | + \$360.00                          | \$ 0.00 |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |              |   |                 | <b>\$ 1,130.00</b>                  |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.  |              |   |                 | \$ 0.00                             |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| <b>SUBTOTAL =</b>   |              |   |                 | <b>\$ 1,130.00</b>                  |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f))  |              |   |                 | \$ 0.00                             |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| <b>TOTAL NATIONAL FEE =</b>   |              |   |                 | <b>\$ 1,130.00</b>                  |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |              |   |                 | + \$ 0.00                           |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| <b>TOTAL FEES ENCLOSED =</b>  |              |   |                 | <b>\$ 1,130.00</b>                  |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| Amount to be refunded:  |              |   |                 | \$                                  |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| Amount to be charged  |              |   |                 | \$                                  |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| <p>a. <input type="checkbox"/> A check in the amount of _____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge our Deposit Account No. <u>501998</u> in the amount of <u>\$1,130.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees that might be required, or credit any overpayment, to Deposit Account No. <u>501998</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. Provide credit card information and authorization on PTO-2038.</p>  |              |   |                 |                                     |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| <p><b>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</b></p>   |              |   |                 |                                     |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| <p>SEND ALL CORRESPONDENCE TO:</p> <p><b>IP STRATEGIES</b><br/>12 1/2 Wall Street<br/>Suite I<br/>Asheville, NC 28801<br/>Voice - (828) 253-8600<br/>Facsimile - (828) 253-8620</p>   |              |   |                 |                                     |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| <p><br/>_____<br/>SIGNATURE<br/>NAME: Thomas M. Champagne<br/>REG. NO. 36,478</p>   |              |   |                 |                                     |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |
| <p>Date: <u>January 28, 2005</u></p>  |              |   |                 |                                     |         |  |          |               |                 |   |          |           |  |  |          |           |  |  |  |           |  |  |  |             |  |  |